


## COUNCIL COMMUNICATION

	Number:	<b>19-517</b>	Meeting:	<b>December 2, 2019</b>
	Agenda Item:	<b>10</b>	Roll Call:	<b>19-1902</b>
	Submitted by:	<b>Steven L. Naber, P.E., City Engineer</b>		

### AGENDA HEADING:

Approving Change Order No. 6 with Corell Contractor, Inc. for additional work on Hubbell Avenue Reconstruction from E. Euclid Avenue to east of E. 38th Street, in the amount of \$298,000.01.

### SYNOPSIS:

Recommend approval of Change Order No. 6 in an amount not to exceed \$298,000.01 with Corell Contractor, Inc., Joel Jackson, Vice President, 1300 Lincoln Street, West Des Moines, IA, 50265, for additional work on Hubbell Avenue Reconstruction from E. Euclid Avenue to East of E. 38th Street.

### FISCAL IMPACT:

Amount: \$298,000.01

Funding Source: 2019-2020 CIP, Page Street – 13, Hubbell Avenue Improvements - E. 33rd Street to E. 38th Street, ST259, G.O. Bonds

### ADDITIONAL INFORMATION:

- On July 9, 2018, under Roll Call No. 18-1204, the City Council approved plans and specifications and designated the lowest responsible bidder as Corell Contractor, Inc. for \$8,918,811.33. The project includes constructing turn lanes along Hubbell Avenue, relocating side roads to improve intersection geometry and sight distance, and installing three (3) new traffic signals along Hubbell Avenue at intersections with E. Euclid Avenue, relocated E. Douglas Avenue (east), and relocated E. Douglas Avenue (west). The project also includes Americans with Disabilities Act (ADA) compliant sidewalk along both sides of Hubbell Avenue, storm sewer construction, and water quality improvements through construction of a settling basin for stormwater entering Four Mile Creek. The primary purpose of the project is to improve safety along Hubbell Avenue by improving capacity and reducing the number of direct accesses to the roadway.
- Change Order No. 1 approved by the City Engineer on November 13, 2018, for a total amount of \$45,699.20, included additional tree clearing to provide enough clearance for construction equipment to operate along E. Douglas Avenue and the Hubbell Avenue to E. Euclid Avenue slip lane. The change order also increased modified subbase depth along relocated E. Douglas Avenue due to poor soil conditions.

- Change Order No. 2 approved by the City Engineer on January 24, 2019, for a total amount of \$49,386.90, included 6-inches of modified subbase under driveways at the Parkside East and Park Winds apartment complexes, temporary pavement to maintain westbound Hubbell Avenue to Euclid Avenue traffic over the winter, removal of storm sewer pipe near Four Mile Creek, portable dynamic message signs prior to opening the new signalized intersection at Relocated E. Douglas Avenue and Hubbell Avenue, and tree protection fence in the vicinity of Relocated E. Douglas Avenue..
- Change Order No. 3 approved by the City Engineer on June 4, 2019, for a total amount of \$48,969.95, included temporary barrier rail installed at multiple locations for traffic control and safety, tree trimming along the temporary access road to the Park Winds Apartment complex to provide clearance for school buses, video inspection of previously installed storm sewers to ensure pipes were properly installed and free of cracks prior to paving, vibration monitoring near the intersection of Hubbell Avenue and E. Euclid Avenue (due to complaints from adjacent property owners about excessive shaking during pavement removals), steel reinforcement for the new Quik Trip driveway at relocated E. Douglas Avenue (due to heavy loads from delivery vehicles), cold weather concrete protection per Iowa Department of Transportation (IDOT) spec for PCC paving that occurred during fall 2018, and abandonment of a cistern discovered during wetland excavation.
- Change Order No. 4 approved by the City Engineer on August 6, 2019, for a total amount of \$48,605, included removal of two (2) dead trees at 3411 Hubbell Avenue in order to construct a temporary road to maintain access to the frontage road during construction along eastbound Hubbell Avenue, modified subbase used as surfacing for the temporary access road, and removal of a double pavement section (road constructed over an existing road) along the westbound lanes of Hubbell Avenue in the vicinity of 3700 and 3720 Hubbell Avenue.
- Change Order No. 5 was approved by the City Engineer on September 19, 2019, for a total amount of \$48,263.47. A segment of existing eastbound Hubbell Avenue between approximate Station 498+50 and Station 506+10 was constructed over existing PCC sub-pavement located as deep as 4-feet below the existing road grade. The sub-pavement traps moisture and impedes drainage under Hubbell Avenue which leads to wet subgrade conditions. To facilitate drainage, the subgrade was cored 6-inches deeper than typical (18-inches instead of 12-inches) and subbase material was split between 9-inches depth of 3-inches clean stone topped by 9-inches depth of modified subbase. The change order item includes coring and replacing with 3-inches clean stone.
- Change Order No. 6 increases the contract amount by \$298,000.01 to complete the following:
  - Two (2) subgrade treatments, geogrid and fly ash stabilization, were included as original contract items to provide alternative methods for stabilizing poor soil conditions throughout the project. Geogrid has been used effectively over nearly all subgrade areas and it is anticipated that geogrid will continue to be installed to stabilize the Hubbell Avenue subgrade east of E. 38th Street. The change order includes geogrid quantity-to-date and adds the estimated quantity to complete the project.

- Modified subbase depth was increased due to poor soil conditions at multiple side road and driveway locations including relocated E. Douglas Avenue (west) and relocated E. Douglas Avenue (east). Modified subbase is also being paid under raised medians per IDOT specification.
- Utility relocations have caused project delays and required modifications to the original project staging plan to accommodate utility work. The revised staging has required shifting traffic multiple times between new and existing paving along Hubbell Avenue, which has required more temporary paving than originally planned.
- Additional pavement was discovered under the existing roadway. The pavement cores did not show this other pavement. The overall pavement depths approaching 20-inches was located along the westbound lanes of Hubbell Avenue in the vicinity of 3700 and 3720 Hubbell Avenue. Pavement removal will be paid for both roadway sections, where encountered.
- Additional temporary granular surfacing has been used to maintain traffic to businesses and residents throughout the project.
- Fiber optic interconnect was included as an original contract item to feed new traffic signals along Hubbell Avenue at E. Euclid Avenue, Relocated E. Douglas Avenue (west) and Relocated E. Douglas Avenue (east)/Hilltop Driveway. It was determined that upgrades are needed to the fiber optic interconnect based on plans to construct a new fire station east of the Hubbell project, which requires connection to the fiber network. Upgrades include installation of 1-48 SM fiber rather than 1-36 SM fiber from East Side Library to E. 33rd Street, three (3) additional splice enclosures, new 1-36 SM cable from E. 33rd Street to E. 42nd Street, new Type IV handhole, and battery back-up for the traffic signal controller cabinet at E. 42nd Street and Hubbell Avenue.
- Based on IDOT specifications, Type 1 biaxial grid (BX1100) was originally bid on the project. Based on successful use of triaxial grid (TX140) on other projects, a price to upgrade was negotiated.

**PREVIOUS COUNCIL ACTION(S):**

Date: July 9, 2018

Roll Call Number: [18-1203](#) and [18-1204](#)

Action: [On](#) Hubbell Avenue Reconstruction from Euclid to East of E. 38<sup>th</sup> Street: Resolution approving plans, specifications, form of contract documents, Engineer's estimate and designating lowest responsible bidder as Corell Contractor, Inc. (Grant S. Corell, President), \$8,918,811.33. ([Council Communication No. 18-361](#)) Moved by Westergaard to adopt. Motion Carried 7-0.

(A) [Approving](#) contract and bond, and permission to sublet. Moved by Westergaard to adopt. Motion Carried 7-0.

**BOARD/COMMISSION ACTION(S): NONE**

**ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:**

Accepting completed construction and approving final payment on public improvement construction contracts.

For more information on this and other agenda items, please call the City Clerk's Office at 515-283-4209 or visit the Clerk's Office on the first floor of City Hall, 400 Robert D Ray Drive. Council agendas are available to the public at the City Clerk's Office on Thursday afternoon preceding Monday's Council meeting. Citizens can also request to receive meeting notices and agendas by email by calling the Clerk's Office or sending their request via email to [cityclerk@dmgov.org](mailto:cityclerk@dmgov.org).